

## FDDC-300-18000-30

0.3~18GHz, 30W

### Features:

- \* Broadband
- \* Low Insertion Loss

### Applications:

- \* Amplifiers
- \* Transmitter
- \* Laboratory Test
- \* Radar

### Electrical

|                               |             |
|-------------------------------|-------------|
| Frequency:                    | 0.3~18GHz   |
| Average Power <sup>*1</sup> : | 30W max. CW |
| Impedance:                    | 50Ω         |

[1] The power needs to meet the matching VSWR not exceeding 1.2.

| Coupling (dB) | Coupling Flatness (± dB max.) | Insertion Loss (dB max.) | VSWR (max.) | Directivity (dB min.) |
|---------------|-------------------------------|--------------------------|-------------|-----------------------|
| 10±0.9        | 1.3                           | 3.9 <sup>*2</sup>        | 1.5         | 15                    |
| 20±1          | 1.2                           | 1.8                      | 1.5         | 14                    |
| 30±1          | 1.2                           | 1.7                      | 1.5         | 14                    |

[2] Including theoretical loss 0.92dB.

### Mechanical

|             |                       |
|-------------|-----------------------|
| Connectors: | SMA Female            |
| Mounting:   | 4-Φ2.6mm through-hole |

### How To Order

**FDDC-300-18000-30-X-Y**

X: Coupling (20, 30dB - Outline A, 10dB - Outline B)

Y: Connector type

Connector naming rules:

S - SMA female

Examples:

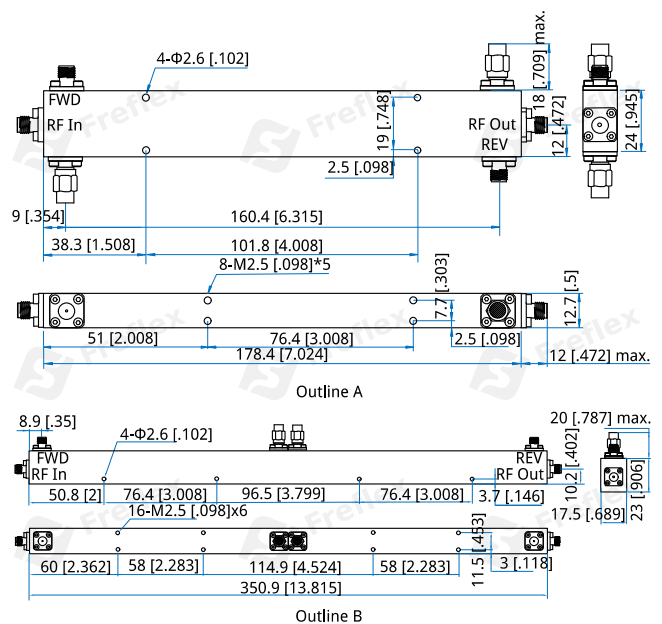
To order a dual directional coupler, 0.3~18GHz, 30W, 20dB, SMA female, specify FDDC-300-18000-30-20-S.

Customization is available upon request.

### Environmental

|                            |            |
|----------------------------|------------|
| Operation Temperature:     | -55~+85°C  |
| Non-operation Temperature: | -55~+100°C |

### Outline Drawings



Unit: mm [in]

Tolerance: x.±1mm [±0.039in], .x±0.5mm [±0.02in], .xx±0.1mm [±0.004in]